

Gerd Birkenmeier

List of Publications by Year in descending order

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62
papers

1,512
citations

304602

22
h-index

360920

35
g-index

64
all docs

64
docs citations

64
times ranked

2500
citing authors

#	ARTICLE	IF	CITATIONS
1	Curcumin Inhibits Glyoxalase 1 – A Possible Link to Its Anti-Inflammatory and Anti-Tumor Activity. PLoS ONE, 2008, 3, e3508.	1.1	143
2	Interleukin-17-producing T helper cells in autoimmunity. Autoimmunity Reviews, 2010, 9, 785-792.	2.5	118
3	Posttranslational Modification of Human Glyoxalase 1 Indicates Redox-Dependent Regulation. PLoS ONE, 2010, 5, e10399.	1.1	79
4	Cerebral Small Vessel Disease-Induced Apolipoprotein E Leakage Is Associated With Alzheimer Disease and the Accumulation of Amyloid β -Protein in Perivascular Astrocytes. Journal of Neuropathology and Experimental Neurology, 2008, 67, 842-856.	0.9	70
5	Evaluation of the In Vitro Efficacy of Artemisia annua, Rumex abyssinicus, and Catha edulis Forsk Extracts in Cancer and Trypanosoma brucei Cells. , 2013, 2013, 1-10.		57
6	Comparison of extraction conditions and normalization approaches for cellular metabolomics of adherent growing cells with GC-MS. Analytical Methods, 2012, 4, 1953.	1.3	56
7	β 2-Macroglobulin Inhibits the Malignant Properties of Astrocytoma Cells by Impeding β -Catenin Signaling. Cancer Research, 2010, 70, 277-287.	0.4	54
8	High-resolution mapping of the 8p23.1 beta-defensin cluster reveals strictly concordant copy number variation of all genes. Human Mutation, 2008, 29, 1247-1254.	1.1	53
9	Unraveling the gut microbiome of the long-lived naked mole-rat. Scientific Reports, 2017, 7, 9590.	1.6	46
10	Ethyl pyruvate and ethyl lactate down-regulate the production of pro-inflammatory cytokines and modulate expression of immune receptors. Biochemical Pharmacology, 2008, 76, 631-644.	2.0	45
11	The subunits of β 2-macroglobulin receptor/low density lipoprotein receptor-related protein, native and transformed β 2-macroglobulin and interleukin 6 in Alzheimer's disease. Brain Research, 1997, 777, 223-227.	1.1	41
12	The anti-tumorigenic activity of A2M – A lesson from the naked mole-rat. PLoS ONE, 2017, 12, e0189514.	1.1	36
13	Exploring glyoxalase 1 expression in prostate cancer tissues: Targeting the enzyme by ethyl pyruvate defangs some malignancy-associated properties. Prostate, 2014, 74, 48-60.	1.2	35
14	Application of phase partitioning and thiophilic adsorption chromatography to the purification of monoclonal antibodies from cell culture fluid. Journal of Immunological Methods, 1992, 149, 165-171.	0.6	30
15	Amyloid- β protein modulates the perivascular clearance of neuronal apolipoprotein E in mouse models of Alzheimer's disease. Journal of Neural Transmission, 2011, 118, 699-712.	1.4	30
16	Association of the Glutathione S-transferase Omega-1 Ala140Asp Polymorphism With Cerebrovascular Atherosclerosis and Plaque-Associated Interleukin-1 β Expression. Stroke, 2007, 38, 2847-2850.	1.0	28
17	Expression of LRP1 in Retinal Pigment Epithelial Cells and Its Regulation by Growth Factors. , 2004, 45, 2033.		27
18	Epitope mapping by screening of phage display libraries of a monoclonal antibody directed against the receptor binding domain of human β 2-macroglobulin. FEBS Letters, 1997, 416, 193-196.	1.3	26

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19	Recognition and separation of isoenzymes by metal chelates. <i>Journal of Chromatography A</i> , 1993, 644, 25-33.	1.8	24
20	Expression of α 2-macroglobulin, neutrophil elastase, and interleukin-1 α differs in early-stage and late-stage atherosclerotic lesions in the arteries of the circle of Willis. <i>Acta Neuropathologica</i> , 2006, 113, 33-43.	3.9	24
21	Genetic Variants of the Copy Number Polymorphic α 2-Defensin Locus Are Associated with Sporadic Prostate Cancer. <i>Tumor Biology</i> , 2008, 29, 83-92.	0.8	24
22	Modulation of GLO1 Expression Affects Malignant Properties of Cells. <i>International Journal of Molecular Sciences</i> , 2016, 17, 2133.	1.8	24
23	Analysis of Alpha-2 Macroglobulin from the Long-Lived and Cancer-Resistant Naked Mole-Rat and Human Plasma. <i>PLoS ONE</i> , 2015, 10, e0130470.	1.1	24
24	Role of LDL receptor-related protein (LRP) in coronary atherosclerosis. <i>International Journal of Cardiology</i> , 2003, 92, 137-144.	0.8	23
25	Glycerophosphoglycerol, Beta-Alanine, and Pantothenic Acid as Metabolic Companions of Glycolytic Activity and Cell Migration in Breast Cancer Cell Lines. <i>Metabolites</i> , 2013, 3, 1084-1101.	1.3	23
26	Modulation of growth factor binding properties of α 2-macroglobulin by enzyme therapy. <i>Cancer Chemotherapy and Pharmacology</i> , 2001, 47, S4-S9.	1.1	22
27	Differences in hydrophobic properties for human α 2-macroglobulin and pregnancy zone protein as studied by affinity phase partitioning. <i>FEBS Journal</i> , 1989, 183, 239-243.	0.2	21
28	The LDL receptor-related protein (LRP1/A2MR) and coronary atherosclerosis - novel genomic variants and functional consequences. <i>Human Mutation</i> , 2002, 20, 404-404.	1.1	19
29	A novel purification procedure for human α 2-fetoprotein by application of immobilised Cibacron Blue F3G-A as affinity ligand. <i>Clinica Chimica Acta</i> , 1983, 133, 335-340.	0.5	18
30	Key molecules in the differentiation and commitment program of T helper 17 (Th17) cells up-to-date. <i>Immunology Letters</i> , 2012, 148, 97-109.	1.1	18
31	Affinity separation of proteins in aqueous three-phase systems. <i>Analytical Biochemistry</i> , 1988, 175, 154-161.	1.1	17
32	Ethyl Pyruvate Emerges as a Safe and Fast Acting Agent against <i>Trypanosoma brucei</i> by Targeting Pyruvate Kinase Activity. <i>PLoS ONE</i> , 2015, 10, e0137353.	1.1	15
33	Prostate-specific antigen triggers transformation of seminal α 2-macroglobulin (α 2-M) and its binding to α 2-macroglobulin receptor/low-density lipoprotein receptor-related protein (α 2-M-R/LRP) on human spermatozoa. , 1998, 36, 219-225.		14
34	Characterization of Novel Monoclonal Antibodies for Prostate-Specific Antigen (PSA) with Potency to Recognize PSA Bound to α 2-Macroglobulin. <i>Clinical Chemistry</i> , 2005, 51, 84-92.	1.5	14
35	Polymyxin B-Conjugated α 2-Macroglobulin as an Adjunctive Therapy to Sepsis: Modes of Action and Impact on Lethality. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2006, 318, 762-771.	1.3	14
36	Interaction of murine monoclonal subunit-specific antibodies with phosphofructokinase-1 from <i>Saccharomyces cerevisiae</i> . <i>FEBS Letters</i> , 1995, 363, 17-21.	1.3	13

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37	Immunocytochemical demonstration of β -2-M-R/LRP on Müller (glial) cells isolated from rabbit and human retina. <i>NeuroReport</i> , 1996, 8, 149-151.	0.6	13
38	The human FGF2 level is influenced by genetic predisposition. <i>International Journal of Cardiology</i> , 2005, 101, 265-271.	0.8	13
39	Method for preparing single-stranded DNA templates for Pyrosequencing using vector ligation and universal biotinylated primers. <i>Analytical Biochemistry</i> , 2006, 356, 194-201.	1.1	13
40	Genetic and functional characteristics of the human in vivo LRP1/A2MR receptor suggested as a risk marker for Alzheimer's disease and other complex (degenerative) diseases. <i>Neuroscience Research</i> , 2004, 50, 85-101.	1.0	12
41	Binding properties of the cerebral β -4 ² nicotinic acetylcholine receptor ligand 2-[¹⁸ F]fluoro-A-85380 to plasma proteins. <i>Nuclear Medicine and Biology</i> , 2006, 33, 899-906.	0.3	12
42	Temporal Dynamics of Glyoxalase 1 in Secondary Neuronal Injury. <i>PLoS ONE</i> , 2014, 9, e87364.	1.1	12
43	Analysis of cultivable microbiota and diet intake pattern of the long-lived naked mole-rat. <i>Gut Pathogens</i> , 2016, 8, 25.	1.6	11
44	Immobilized metal ion affinity partitioning of erythrocytes from different species in dextranpoly(ethylene glycol) aqueous phase systems. <i>Journal of Chromatography A</i> , 1993, 641, 279-289.	1.8	10
45	Analysis of relative gene dosage and expression differences of the paralogs RABL2A and RABL2B by Pyrosequencing. <i>Gene</i> , 2010, 455, 1-7.	1.0	10
46	Ethyl Pyruvate Combats Human Leukemia Cells but Spares Normal Blood Cells. <i>PLoS ONE</i> , 2016, 11, e0161571.	1.1	10
47	Ethyl Pyruvate: An Anti-Microbial Agent that Selectively Targets Pathobionts and Biofilms. <i>PLoS ONE</i> , 2016, 11, e0162919.	1.1	10
48	Interaction of the dye Remazol Yellow GGL to prealbumin and albumin studied by affinity phase partition, difference spectroscopy and equilibrium dialysis. <i>Molecular and Cellular Biochemistry</i> , 1987, 73, 99-110.	1.4	7
49	Effect of β -2-macroglobulin on retinal glial cell proliferation. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 2005, 243, 811-816.	1.0	7
50	[14] Partitioning of blood proteins using immobilized dyes. <i>Methods in Enzymology</i> , 1994, 228, 154-167.	0.4	6
51	Separation of paraproteins from human plasma by membrane chromatography. <i>Biomedical Applications</i> , 1997, 704, 63-68.	1.7	6
52	Localization of β -2-Macroglobulin Receptor/Low-Density Lipoprotein Receptor in Third-Trimester Human Placentas: A Preliminary Immunohistochemical Study. <i>Gynecologic and Obstetric Investigation</i> , 2001, 52, 22-25.	0.7	6
53	Verification and characterization of an alternative low density lipoprotein receptor-related protein 1 splice variant. <i>PLoS ONE</i> , 2017, 12, e0180354.	1.1	6
54	[24] Detection of conformational changes in proteins by probing with poly(ethylene glycol)-bound ligands. <i>Methods in Enzymology</i> , 1994, 228, 264-275.	0.4	4

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55	The temporal and spatial dynamics of glyoxalase I following excitotoxicity and brain ischaemia. <i>Biochemical Society Transactions</i> , 2014, 42, 534-537.	1.6	4
56	Plasma concentration of total and transformed $\hat{I}\pm 2$ -macroglobulin in systemic sclerosis. <i>Archives of Dermatological Research</i> , 1996, 288, 405-407.	1.1	3
57	Ethyl pyruvate does not require microglia for mediating neuroprotection after excitotoxic injury. <i>CNS Neuroscience and Therapeutics</i> , 2017, 23, 798-807.	1.9	2
58	Comparative Examination of Temporal Glyoxalase 1 Variations Following Perforant Pathway Transection, Excitotoxicity, and Controlled Cortical Impact Injury. <i>Neurotoxicity Research</i> , 2018, 33, 412-421.	1.3	2
59	Affinity Partitioning of Biomolecules in Aqueous Two-Phase Systems. , 1993, , 499-509.		2
60	[34] Factors in the affinity extraction of red blood cells using poly(ethylene glycol)-metal chelate. <i>Methods in Enzymology</i> , 1994, 228, 368-377.	0.4	1
61	Plasma concentration of total and transformed $\hat{I}\pm 2$ -macroglobulin in systemic sclerosis. <i>Archives of Dermatological Research</i> , 1996, 288, 405-407.	1.1	1
62	Epitope mapping of a monoclonal antibody directed against the $\hat{I}\pm$ -subunit of phosphofructokinase-1 from <i>Saccharomyces cerevisiae</i> by screening phage display libraries. , 1999, 12, 33-37.		0